DPM 5182-1

MATERIAL SAFETY
DATA SHEET

3M
3M CENTER
ST. PAUL, MINNESOTA
55144-1000
612/733-1110 Duns No.: 00-617-3082

REC'D DEC 21 1987

DIVISION: COMMERCIAL GRAPHICS
TRADE NAME: SCOTCHCAL BRAND SCREEN PRINTING INK 6603
3M I.D. NUMBER: 75-3455-7016-4
ISSUED: SEPTEMBER 1, 1985
SUPERSEDES: FEBRUARY 1, 1983
DOCUMENT: 10-0318-5

1. INGREDIENTS	C.A.S. NO.	PERCENT	EXPOSURE LIMITS	
2-ETHOXYETHYL ACETATE	111-15-9	25.0- 40.0	5PPM	1
DIALKYL GLYCOL ETHER ESTER	112-15-2	15.0- 25.0	None	5
XYLENE	1330-20-7	0.5- 1.5	100PPM	1
RESINS	NONE	20.0- 40.0	None	5
TITANIUM DIOXIDE	13463-67-7	25.0- 30.0	5MG/CU.M.	1

SOURCE OF EXPOSURE LIMIT DATA
1. ACGIH THRESHOLD LIMIT VALUES
2. FEDERAL OSHA PERMISSIBLE EXPOSURE LIMIT
3. 3M EXPOSURE GUIDELINES
4. CHEMICAL MANUFACTURER RECOMMENDED GUIDELINES
5. NONE ESTABLISHED

ABBREVIATIONS
N/D - NOT DETERMINED
N/A - NOT APPLICABLE

2. PHYSICAL DATA

BOILING POINT:	>130C.	SOLUBILITY IN WATER:	slightly misible
VAPOR PRESSURE:	<5mm Hg @23C	SP. GRAVITY (WATER=1):	1.1-1.4
VAPOR DENSITY (AIR=1):	>1	PERCENT VOLATILE:	50-65
EVAPORATION RATE (BuAc=1):	<1	VISCOSITY:	5000-8000 CPS
APPEARANCE AND ODOR:	White liquid; mild solvent odor	PH:	N/A

3. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (closed cup): 120F(49C)
FLAMMABLE LIMITS - LEL: 1.0 UEL: 7.0

EXTINGUISHING MEDIA:
Carbon dioxide, foam or dry chemicals.
SPECIAL FIRE FIGHTING PROCEDURES:
Fire fighters should be equipped with full protective gear and self contained breathing apparatus.
UNUSUAL FIRE AND EXPLOSION HAZARDS:
Combustible liquid.

4. REACTIVITY DATA

STABILITY: STABLE

INCOMPATIBILITY - MATERIALS TO AVOID:
None known.
HAZARDOUS POLYMERIZATION: MAY NOT OCCUR

HAZARDOUS DECOMPOSITION PRODUCTS:
Thermal decomposition may produce carbon monoxide and carbon dioxide.

5. ENVIRONMENTAL INFORMATION

SPILL RESPONSE:
Observe all precautions in section 7. Extinguish all ignition sources. Collect spilled material, clean up residue and place in U.S. Dept. of Transportation approved container.
RECOMMENDED DISPOSAL:
Reclamation or incineration in a permitted hazardous waste facility capable of meeting applicable regulatory requirements for destruction and removal is preferred. Otherwise, dispose in accordance with applicable regulations.
ENVIRONMENTAL DATA:
U.S. EPA Hazardous Waste Number: D001 (ignitable)

6. SUGGESTED FIRST AID

EYE CONTACT:
Call a physician.

SKIN CONTACT:
Wash with soap and water.

INHALATION:
Remove person to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, give artificial respiration. Keep person warm and quiet. Call a physician.

IF SWALLOWED:
Give one to two glasses of water. Induce vomiting. Call a physician.

7. PRECAUTIONARY INFORMATION

Keep away from heat, sparks and open flame. Avoid eye contact; wear chemical eye goggles when handling. Use only in well ventilated areas with sufficient air movement to maintain airborne vapor concentration levels at recognized health and safety levels. The exposure limits listed in section 1 should be observed. Local exhaust ventilation is recommended. Avoid prolonged breathing of vapors. Avoid skin contact; wear impervious gloves suitable for ingredients listed in section 1. Keep container closed when not in use. An eye wash station and safety shower are suggested as a good workplace practice where accidental eye contact or extensive skin contact can occur.

8. HEALTH HAZARD DATA

EYE: Direct contact with the liquid causes eye irritation.

SKIN: Direct contact with the liquid may cause mild skin irritation. The solvents may be absorbed through the skin on prolonged contact. Repeated overexposure may cause lung damage, kidney damage and nervous system impairment. 2-ethoxyethyl acetate has been found to cause birth defects, male reproductive disorders and blood disorders in animal studies.

INHALATION: Breathing of elevated levels of airborne vapors causes irritation to the nose, throat and respiratory system. Repeated overexposure may cause lung, kidney and nervous system impairment. 2-ethoxyethyl acetate has been found to cause birth defects, male reproductive disorders and blood disorders based on animal studies. 2-ethoxyethyl acetate has an OSHA permissible exposure level of 100ppm TWA. The OSHA value was established prior to the test date on birth defects. Xylene has an OSHA permissible exposure level of 100 ppm TWA. Titanium dioxide has an OSHA permissible exposure limit of 15 milligrams per cubic meter. Titanium dioxide has been shown to cause benign and cancerous lung tumors in rats exposed to 250 milligrams per cubic meter of air six hours a day, five days a week for two years. Inhalation exposure to titanium dioxide is not expected during normal use and handling of this product.

INGESTION: The liquid is slightly toxic if ingested and may cause gastrointestinal tract irritation. 2-ethoxyethyl acetate has caused male reproductive disorders and blood disorders when given orally to laboratory animals. Ingestion is not an expected route of exposure during intended use and handling.